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APPLICATION NO.	ON NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO. CONFIRMATIO		
10/043,241	01/14/2002	Matthias Bratz	42044 Cont.	1890	
26474	7590 08/30/2005		EXAMINER		
NOVAK DR	UCE DELUCA & Q	QAZI, SABIHA NAIM			
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SUITE 400 E.	AST	ART UNIT	PAPER NUMBER		
WASHINGTO	ON, DC 20005	1616			

DATE MAILED: 08/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		17						
Office Action Summary			Application No.	_	Applicant(s)			
			10/043,241		BRATZ ET AL.			
			Examiner		Art Unit			
			Sabiha Qazi		1616			
The Period for Re	e MAILING DATE of this commun eply	ication appe	ars on the cover sh	eet with the c	orrespondence ad	idress		
THE MAII - Extensions after SIX (6 - If the perio - If NO perio - Failure to r Any reply r	ENED STATUTORY PERIOD F LING DATE OF THIS COMMUN of time may be available under the provisions of MONTHS from the mailing date of this com- d for reply specified above, is less than thirty (3 d for reply is specified above, the maximum st eply within the set or extended period for reply eccived by the Office later than three months ent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136 munication. 30) days, a reply w tatutory period will y will, by statute, c	(a). In no event, however, within the statutory minimum apply and will expire SIX (i) ause the application to become	may a reply be tim n of thirty (30) days 6) MONTHS from to ome ABANDONED	ely filed will be considered time the mailing date of this c (35 U.S.C. § 133).			
Status								
1)⊠ Res	ponsive to communication(s) file	ed on <i>06 Jun</i>	ne 2005.					
2a)⊠ This	This action is FINAL . 2b) ☐ This action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of	of Claims							
4a) 5)☐ Cla 6)☐ Cla 7)☐ Cla	im(s) <u>10-17 and 19-23</u> is/are per Of the above claim(s) <u>22 and 23</u> im(s) is/are allowed. im(s) <u>17,19-23 and 190</u> is/are re im(s) is/are objected to. im(s) are subject to restrict	<i>(in-part)</i> is/a	re withdrawn from		1.			
Application F	Papers							
9) <u></u> The	specification is objected to by th	e Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority unde	r 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s)								
2) Notice of 0 3) Information	References Cited (PTO-892) Praftsperson's Patent Drawing Review (Find Disclosure Statement(s) (PTO-1449 or S)/Mail Date		Pape 5) 🔲 Noti	rview Summary (er No(s)/Mail Da ce of Informal Pa er:		O-152)		

Application/Control Number: 10/043,241 Page 2

Art Unit: 1616

Non-Final Office Action

Acknowledgement is made of the response filed on 5/25/05 and a supplemental response filed on 6/26/05. Amendments are entered. Claims 10-17 and 19-23 are pending. No claim is allowed.

Response to Arguments

- Since no documentation was found for the disclaimer of US Patent 6482772, 35 USC §
 101 rejection is maintained.
- Arguments regarding obviousness rejections were fully considered but was not found
 persuasive therefore all the rejections are maintained for the same reasons as set forth in
 our previous office action.
- Amendments in claim 22 and the definition of J have been noted. This is different from what has been in claim 11. Newly submitted claims 22 and 23 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: The substituent J as defined in claim 22 is not in original claim 11 except phenyl ring.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 22 and 23 (in-part) withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Application/Control Number: 10/043,241 Page 3

Art Unit: 1616

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or

composition of matter, or any new and useful improvement thereof, may obtain a patent

therefor, subject to the conditions and requirements of this title.

Claims 10-17 and 19-21 are rejected under 35 U.S.C. 101 as claiming the same invention

as that of claims 1-9 of prior U.S. Patent No. 6,482,772. This is a double patenting rejection.

Presently claimed invention is drawn to a solid mixture of sulfonylurea and an

alkylpolyglycoside, their preparation and method of use for controlling undesirable plant growth,

same invention is claimed in US '772. The claims are **EXACTLY** the same.

NOTE: The 35 USC § 101 rejection has been made because the disclaimer filed by the

Applicants to disclaim their US patent¹ has not yet been processed. Once the disclaimer has been

approved and processed, the rejection will be withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or

described as set forth in section 102 of this title, if the differences between the subject

matter sought to be patented and the prior art are such that the subject matter as a whole

would have been obvious at the time the invention was made to a person having ordinary

¹ US Patent No. 6.482,772.

Application/Control Number: 10/043,241 Page 4

Art Unit: 1616

skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1st Rejection

Claims 10-17 and 19-23 (in part) are rejected under 35 U.S.C. 103(a) as being unpatentable over GARST et al². GARST et al is drawn to a composition in dry form which can easily undergo dry blending and milling contains biologically active materials and a solid surfactant composed of a combination of an alkyl polyglycoside and an inert carrier selected from the group consisting of silica, talc, a zeolite, magnesium aluminum silicate, calcium sulfate, magnesium carbonate, magnesium oxide, aluminum oxide.³ GARST et al teaches a liquid nonionic surfactant into a solid phase agricultural chemical formulation which contains fungicides; bactericides, bacteriostat; insecticides; insect repellents; herbicides and/or plant growth regulators and mixtures thereof so that the liquid nonionic surfactant can function as an effective emulsifier when the agricultural chemical formulation is mixed with water.⁴ GARST et al also teaches biologically active materials and a solid phase surfactant assume a dry form which can easily undergo dry blending and milling. The solid phase surfactant is comprised of a combination of an alkyl polyglycoside and an inert carrier. The compositions according to the invention allow a liquid nonionic surfactant such as an alkyl polyglycoside to be incorporated into a solid composition containing a biologically active material which includes an insecticide, insect repellent, fungicide, bactericides, bacteriostat, herbicide, a plant growth regulator and the

² US Patent No. 5,550,115, published on August 27, 1996. See the entire document.

See abstract.

⁴ See lines 50-57 of col. 1.

Art Unit: 1616

like. The alkyl polyglycoside surfactants assume a dry form while in combination with the inert carrier and are readily desorbed in aqueous media.⁵

Furthermore, GARST et al teaches a method of treating an agricultural substrate comprising introducing to the substrate a sufficient amount of a composition which is comprised of a biologically active material which includes an insecticide, insect repellent, fungicide, a bactericide, bacteriostat, herbicide, a plant growth regulator and the like and a solid phase surfactant which is comprised of a combination of an alkyl polyglycoside and an inert carrier along with other adjuvants typically used in agricultural chemical formulations.⁶ GARST et al also teaches that preferred alkyl polyglycosides are those in which the alkyl groups contains from 8 to 12 carbon atoms and having an average degree of polymerization of 1.6 to 1.7. The most preferred alkyl polyglycosides are those which have alkyl groups containing 8 to 10 carbon atoms and having an average degree of polymerization of 1.7 and those which have alkyl groups containing 9 to 11 carbon atoms and having an average degree of polymerization of 1.6.7 GARST et al teaches the relative amounts of alkyl polyglycoside and inert carrier which make up the solid phase surfactant can be expressed as a weight ratio of alkyl polyglycoside to inert carried and can range from 0.10 to 0.90. It is preferred that the solid phase surfactants have a weight ratio of alkyl polyglycoside to inert carrier of from 0.40 to 0.80 and most preferably from 0.60 to 0.65. The solid phase surfactant can be made by any method known to those skilled in the art. One such method is disclosed in U.S. Pat. No. 5,364,647, the entire contents of which are incorporated herein by reference. In one preferred method of making the solid phase surfactants according to the invention, 5 to 65 parts by weight of alkyl polyglycoside of formula I are mixed

⁵ See lines 58-67 of col. 1 and lines 1-3 of col. 2.

with 35 to 95 parts by weight of silica and a quantity of water sufficient to produce a mixture which flows freely at a temperature below 80.degree. C. The water is then removed from the mixture by any convenient means such as by spray drying, fluidized bed, or belt drying, so that the a free flowing powder is formed. In another preferred method of making the solid phase surfactants according to the invention, a hot, 50% aqueous solution of an alkyl polyglycoside is sprayed onto precipitated silica such that the resulting solid phase surfactant is comprised of 49% by weight of alkyl polyglycoside and 51% by weight of precipitated silica. The solid phase surfactant thus formed can then be formulated with a biologically active material such as an insecticide, insect repellent, fungicide, bactericides, bacteriostat, herbicide, a plant growth regulator and the like along with other components typically used in such formulations and well known to those skilled in the art to form a formulation suitable for agricultural chemical applications. The solid phase surfactant according to the invention provides an emulsifier, which readily enters the water phase when a composition containing the solid phase surfactant and a biologically active material is introduced into water for the purpose of applying it to a plant.⁸

The instant invention would have been obvious to one skilled in the art at the time of invention. There has been ample motivation provided by the prior art to prepare the instant compositions. Poly alkylglycosides are used for the enhancement of the activity of sulfonyl urea therefore, it would have been obvious to prepare the composition containing mainly these two ingredients for the same use.

Normally, change in temperature, concentration, or both, is not a patentable modification; however, such changes may impart patentability to a process if the ranges claimed produce a new

⁶ See lines 4-14 of col. 2.

Page 7

and unexpected result which is different in kind and not merely in degree from results of prior art; such ranges are termed "critical" ranges, and applicant has burden of proving such criticality; even though applicant's modification results in great improvement and utility over prior art, it may still not be patentable if the modification was within the capabilities of one skilled in the art; more particularly, where the general conditions of the claim are disclosed in the prior art, it is not inventive to discover optimum or workable ranges by routine experimentation.⁹

It is well established that merely selecting proportions and ranges is not patentable absent a showing of criticality. 10

It is a general rule that merely discovering and claiming a new benefit of an old process cannot render the process again patentable. Nor can patentability be found in differences in ranges recited in the claims. When the difference between the claimed invention and the prior art is some range or other variable within the claims, the applicant must show that the particular range is critical, generally by showing that the claimed range achieves unexpected results relative to the prior art range. 11

A reference is good not only for what it teaches by direct anticipation but also for what one of ordinary skill might reasonably infer from the teachings. 12 A reference is not limited to working examples. 13

Accordingly, the burden of proof is upon applicants to show that instantly claimed subject matter is different and unobvious over those taught by prior art. 14

⁷ See lines 38-45 in col. 3.

⁸ See lines 55-67 of col. 3 and lines 1-25 of col. 4.

⁹ In re Aller et al. 105 USPQ 233.

10 In re Becket, 33 U.S.P.Q. 33 (C.C.P.A. 1937). In re Russell, 439 F.2d 1228, 169 U.S.P.Q. 426 (C.C.P.A. 1971).

In re Woodruff, 16 USPQ2d 1934.

¹² In re opprecht 12 USPQ 2d 1235, 1236 (Fed Cir. 1989); In re Bode 193 USPQ 12 (CCPA 1976).

Art Unit: 1616

The Examiner has considered the data in the Specification. It is unclear why the amount of the active compound was different in each case.

In the light of the forgoing discussion, the Examiner's ultimate legal conclusion is that the subject matter defined by the instant claims would have been obvious within the meaning of 35 U.S.C. 103(a).

2nd Rejection

Claims 10-17 and 19-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over MALIK et al¹⁵ and DUPONT¹⁶.

MALIK et al teaches that various materials such as insecticides, insect repellents, fungicides, bactericides, herbicides, and plant growth regulators may formulated into various products for use on crops, for insect control, weed control and the like. Often, these products are applied as a dry powder or a granular material to the surface, which is desired to be treated. MALIK et al teaches a specific dispersing aid is often employed when the product is to be applied in a powder or dry form and yet a second different dispersing aid is required when the product is to be applied as a semi-solid or liquid composition. It would be advantageous to prepare a product comprising the active ingredient and to utilize a single dispersing agent without regard to whether the final use application of the product is in a liquid or solid formulation. Moreover, the desirability of using a single ingredient as a dispersing agent reduces

¹³ In re Fracalossi 215 USPQ 569 (CCPA 1982).

¹⁴ See *In re Brown*, 173 USPQ 685, 688; *In re Best*, 195 USPQ 430 and *In re Marosi*, 218 USPQ 289, 293.

¹⁵ US Statutory Invention Registration H224, published on March 3, 1987. See the entire document.

¹⁶ Dupont Escort®, Oust®, Telar® Product Information Bulletin, June 1996, 4 pages. See the entire document. Filed in Applicants' PTO-1449.

¹⁷ See lines 11-17 of col. 1.

Art Unit: 1616

the possibility for error given the number of chemicals, which must be compounded to prepare a

herbicide or insecticide product.¹⁸ MALIK et al states, "The emulsifying and dispersing

capabilities of the dispersing agents of the present invention also make them less resistant to

being removed by rain from the surface of a growing plant. The reader is suggested to review

U.S. Pat. No. 4,512,989 issued Apr. 23, 1985 to OHYAMA et al. for a general disclosure of

agricultural compositions with which the present invention is concerned."19

MALIK et al specifically mentions the usefulness of alkyl polyglycosides.²⁰

DUPONT teaches that sulfonylurea herbicides are very effective inhibitors of plant cell

division and growth. They inhibit the activity of a key enzyme in plants (acetolactate synthase, or

ALS) for plant cell growth.21 Furthermore, DUPONT teaches that Escort, Oust, and Telar (all

members of the sulfonylurea family of herbicides) dispersible granules have proven to be stable

when stored in their original containers at normal temperatures.²² DUPONT also teaches that, at

pH 5 and pH 9, the hydrolysis half-life is stable.²³

The instant claims differ from the prior art in claiming a broader scope.

One skilled in the art would have been motivated at the time of invention to prepare any

solid composition of any herbicides such as sulfynylureas and alkyl polyglycosides because the

prior art of MALIK et al and DUPONT teach these compositions, their uses, and their process of

making. The solid composition has been taught by the prior art. Therefore, one skilled in the art

¹⁸ See lines 29-41 of col. 1.

¹⁹ See lines 58-65 of col. 1.

²⁰ See lines 34-37 of col. 2.

²¹ See second paragraph on page 1.

²² See "Stability" paragraph on page 1.

²³ See "Hydrolysis Half-Life Table" on page 2.

who needs to prepare a solid composition of herbicide urea and polyglycosides would be able to

make and/or use it because the prior art teaches such compositions and their uses.

In the light of the forgoing discussion, the Examiner's ultimate legal conclusion is that the subject matter defined by the instant claims would have been obvious within the meaning of 35 U.S.C. 103(a).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sabiha Qazi whose telephone number is (571) 272-0622. The examiner can normally be reached on any business day.

Application/Control Number: 10/043,241 Page 11

Art Unit: 1616

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Kunz can be reached on (571) 272-0887. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

SABIHA QAZI, PH.D PRIMARY EXAMINER

Monday August 22, 2005, 2005